

## PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner  
 US Department of Commerce  
 United States Patent and Trademark  
 Office, PCT  
 2011 South Clark Place Room  
 CP2/5C24  
 Arlington, VA 22202  
 ETATS-UNIS D'AMERIQUE  
 in its capacity as elected Office

<b>Date of mailing</b> (day/month/year) 29 January 2001 (29.01.01)	
<b>International application No.</b> PCT/NO00/00160	<b>Applicant's or agent's file reference</b> P 8508
<b>International filing date</b> (day/month/year) 18 May 2000 (18.05.00)	<b>Priority date</b> (day/month/year) 03 June 1999 (03.06.99)
<b>Applicant</b> MOEN, Øyvind et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:  
 11 December 2000 (11.12.00)

☐ in a notice effecting later election filed with the International Bureau on:  
 \_\_\_\_\_

2. The election ☒ was  
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<b>The International Bureau of WIPO</b> 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	<b>Authorized officer</b> Athina Nickitas-Etienne Telephone No.: (41-22) 338.83.38
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## PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

HÅMSØ PATENTBYRÅ ANS  
Box 171  
N-4302 SANDNES  
NORWAY

PCT

WRITTEN OPINION

(PCT Rule 66)

Applicant's or agent's file reference P 8508		Date of mailing (day/month/year) 11-06-2001
International application No. PCT/NO00/00160	International filing date (day/month/year) 18.05.2000	REPLY DUE within 60 days from the above date of mailing Priority date (day/month/year) 03.06.1999
International Patent Classification (IPC) or both national classification and IPC B65D 5/43, B65D 85/57, G11B 23/03		
Applicant Smartbox AS et al		

1. This written opinion is the first (first, etc.) drawn by this International Preliminary Examining Authority.
2. This opinion contains indications relating to the following items:
  - I ☒ Basis of the report
  - II ☐ Priority
  - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - IV ☐ Lack of unity of invention
  - V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - VI ☐ Certain documents cited
  - VII ☐ Certain defects in the international application
  - VIII ☒ Certain observations on the international application
3. The applicant is hereby invited to reply to this opinion.

**When?** See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).

**How?** By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

**Also** For an additional opportunity to submit amendments, see Rule 66.4.  
For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis.  
For an informal communication with the examiner, see Rule 66.6.

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.
4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 03.10.2001

Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88	Telex 17978 PATOREG-S	Authorized officer  Anette Hall/MP Telephone No. 08-782 25 00
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## WRITTEN OPINION

International application No.

PCT/NO00/00160

## I. Basis of the opinion

## 1. With regard to the elements of the international application:\*

☒ the international application as originally filed☐ the description:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

☐ the claims:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, as amended (together with any statement) under article 19

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

☐ the drawings:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

☐ the sequence listing part of the description:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language English which is:☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☒ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written opinion was drawn on the basis of the sequence listing:

☐ contained in the international application in printed form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☐ The amendments have resulted in the cancellation of:☐ the description, pages \_\_\_\_\_☐ the claims, Nos. \_\_\_\_\_☐ the drawings, sheet/fig \_\_\_\_\_5. ☐ This opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2 (c)).

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed".

## WRITTEN OPINION

International application No.

PCT/NO00/00160

**V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

## 1. Statement

Novelty (N)	Claims	<u>1-10</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	<u>2-5, 7-10</u>	YES
	Claims	<u>1.6</u>	NO
Industrial applicability (IA)	Claims	<u>1-10</u>	YES
	Claims	_____	NO

## 2. Citations and explanations

The claimed inventions relate to a box for a videocassette, compact disc or similar and a blank for a box. The box is folded from a sheet-like blank having front and rear walls, sidewalls and end panels. The box is provided with a seal that indicates if the box has been opened. The seal could comprise a bow-like element and a locking element.

Document US, 4434896, A discloses a tamper resistant reclosable package. It is made of a blank having front and rear walls, sidewalls and end panels. The tamper indicator consists of a tear strip with a tab.

The invention according to claims 1 and 6 seems to differ in that the sealing means is connected to two adjacent walls. However, neither of the claims does clearly disclose how the sealing means is constructed. According to the PCT regulation an invention has to be clearly defined, (see certain observations).

If the inventions according to claims 1 and 6 are more clearly defined then these claims will describe an invention that fulfils the requirement of novelty and inventive step according to the PCT regulations.

It is considered obvious to one skilled in art to apply the features from the cited document and to arrive at the box described in claim 1 and the blank described in claim 6. Consequently, the subject matter of claims 1 and 6 lack inventive step.

The subject matter of claims 1-10 fulfils the requirements of industrial applicability.

## WRITTEN OPINION

International application N .

PCT/NO00/00160

## VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1 and 6, and consequently the dependent claims, are not clear and concise (Article 6). What is meant by "the sealing means being provided at two adjacent end walls", lines 18-20? How do the different parts co-operate to disclose whether the box has been opened?

## PATENT COOPERATION TREATY

PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 02 OCT 2001

WIPO PCT

Applicant's or agent's file reference P 8508	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/NO00/00160	International filing date (day/month/year) 18.05.2000	Priority date (day/month/year) 03.06.1999
International Patent Classification (IPC) or national classification and IPC <sub>7</sub> B65D 5/43, B65D 85/57, G11B 23/03		
Applicant Smartbox AS et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 4 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand  11.12.2000	Date of completion of this report  13.09.2001
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88	Authorized officer  Anette Hall/EÖ Telephone No. 08-782 25 01

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NO00/00160

**I. Basis of the report****1. With regard to the elements of the international application:\***

- ☐ the international application as originally filed
- ☒ the description:  
pages 1 - 7 , as originally filed  
pages \_\_\_\_\_ , filed with the demand  
pages \_\_\_\_\_ , filed with the letter of \_\_\_\_\_
- ☒ the claims:  
pages \_\_\_\_\_ , as originally filed  
pages \_\_\_\_\_ , as amended (together with any statement) under article 19  
pages \_\_\_\_\_ , filed with the demand  
pages 8 - 11 , filed with the letter of 08.08.2001
- ☒ the drawings:  
pages 1 - 3 , as originally filed  
pages \_\_\_\_\_ , filed with the demand  
pages \_\_\_\_\_ , filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_ , as originally filed  
pages \_\_\_\_\_ , filed with the demand  
pages \_\_\_\_\_ , filed with the letter of \_\_\_\_\_

**2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.**These elements were available or furnished to this Authority in the following language English which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☒ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

**3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:**

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

**4. ☐ The amendments have resulted in the cancellation of:**

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheet/fig \_\_\_\_\_

**5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2 (c)).\*\***

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.:

PCT/NO00/00160

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims	<u>1-10</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-10</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-10</u>	YES
	Claims		NO

**2. Citations and explanations (Rule 70.7)**

Document US, 4434896, A discloses a tamper-resistant reclosable package containing a highly visible tamper indicator. One end panel contains a removable tear strip.

The inventions according to claims 1 and 6 differ in that the tamperproof device comprises two co-operating members and that they are positioned at two adjacent end walls. This is not obvious to those skilled in the art.

Consequently, the subject matter of claims 1 and 6, and the dependent claims 2-5 and 7-10, fulfils the requirement of novelty, inventive step and industrial applicability.



2001-08-08

## A m e n d e d   C l a i m s

1. A box for a video cassette, compact disc (CD) or a similar object, formed of a sheet-like blank and comprising two opposing side walls (1, 2) and  
5 intermediate end walls (3-6), interconnected through folding lines (7-11), a first end wall (3) positioned between first and second folding lines (7, 8) each defining a longitudinal edge of each of said two opposing side walls (1, 2), interconnecting the side  
10 walls (1, 2) and having the same extent as the longitudinal edges of the side walls (1, 2), characterized in that a second end wall (4) extends at a third folding line (9) positioned to coincide with a longitudinal edge of one (2) of the side  
15 walls (1, 2) opposite the aforementioned longitudinal edges, and the remaining end walls (5, 6) extend at fourth and fifth folding lines (10, 11) positioned to coincide with transversal edges of one (2) of the side walls (1, 2) having a longitudinal edge coinciding with  
20 said third folding line (9), said box having a distinct opening end and a closure (12,13) assigned thereto, said closure comprising two co-operating closure members (12, 13) positioned at two adjacent end walls (4, 5) at said distinct opening end of the box and adapted to engage  
25 each other in order to keep said end opening closed until it is forced open, at least one (12) of said closure members (12, 13) being adapted to get torn and useless for a subsequent closing operation upon being subjected to tension caused by the opening end being  
30 forced open.

2. A box according to claim 1, characterized in that the closure comprises a bow-like element (12) disposed on one end wall (4) at the opening end of the box and a locking element (13) assigned thereto and disposed on an adjacent end wall (5), the bow-like element (12) being dimensioned to get torn through the tensile force exerted thereon by the locking element (13) when moved as a result of the end opening of the box being forced open.
3. A box according to claim 2, characterized in that the bow-like element (12) is positioned in a region near a transversal edge (24) of the end wall (4), facing the end wall (5), and the locking element (13) in the extension of the end wall (5) facing the end wall (4).
4. A box according to any one of the preceding claims 2 and 3, characterized in that at one end facing the bow-like element (12), the locking element (13) is formed with a wedge-like portion (14) adapted to rest in a locking manner against the bow-like element (12), the closure means being opened in that the bow-like element (12) is being torn.
5. A box according to any one of the preceding claims, characterized in that the respective ones of the free longitudinal edges (17, 18, 34) of the end walls (5, 6, 4), and the free transversal edges (20, 21) and the free longitudinal edge (19) of the side wall (1), and the respective ones of the free transversal edges (25-30) of the end walls (3-6) are formed with

closing means (22, 23) resembling a snap-lock, for example.

6. A sheet-like blank for a box for a video cassette, a compact disc (CD) or a similar object, comprising two juxtaposed side walls (1, 2) and intermediate end walls (3-6), characterized in that the blank comprises the side walls (1, 2), end walls (3-6) and folding lines (7-11) provided therefor, the end walls (3-6) being positioned so that one end wall (3) extends between two of the folding lines (7, 8) formed to coincide with the longitudinal edges, facing one another, of the side walls (1, 2), one end wall (4) extends at the folding line (9) formed to coincide with a longitudinal edge of one of the side walls (2) opposite the aforementioned longitudinal edges, and the remaining end walls (5, 6) extend at respective folding lines (10, 11) formed to coincide with transversal edges of the side wall (2) last mentioned, and a closure means (12,13) comprising two co-operating members (12, 13) positioned on two adjacent end walls (4, 5) and, in the erected position of the box to be formed by the blank, adapted to engage one another to keep an openable box end closed, until it is forced open, at least one (12) of said closure members (12) being too weak to withstand more than one opening operation, making a further closing operation impossible.

7. A blank according to claim 6, characterized in that the sealing means comprises a bow-like element (12) and a locking element (13) arranged thereto, formed in respective end walls (4, 5).

8. A blank according to claim 7, characterized in that the bow-like element (12) is positioned in a region near a transversal edge (24) of the end wall (4), facing the end wall (5), and the locking element (13) in the extension of the end wall (5) facing the end wall (4).


9. A blank according to any one of claims 7-8, characterized in that at an end facing the bow-like element (12), the locking element (13) is formed with a wedge-shaped portion (14) adapted to bear in a locking manner against the bow-like element (12), the sealing means being opened by breaking the bow-like element (12).

10. A blank according to any one of claims 6-9, characterized in that the respective ones of the free longitudinal edges (17, 18, 34) of the end walls (5, 6, 4) and the free transversal edges (20, 21) and the free longitudinal edge (19) of the side wall (1), or the respective ones of the free transversal edges (25-30) of the end walls (3-6) are formed with closing means (22, 23) resembling a snap-lock, for example.

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only	
PCT/NO 00 / 00160	
International Application No.	
International Filing Date 18 MAI 2000 (18.05.2000)	
 <b>PATENTSTYRET</b> Styret for det industrielle rettsvern PCT International application	
Name of receiving Office and "PCT International Application"	
Applicant's or agent's file reference (if desired) (12 characters maximum) P 8508	

Box No. I TITLE OF INVENTION Box for videocassette, compact disc (CD) or similar, and subject for the box.	
Box No. II APPLICANT	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  Smartbox AS Brynsveien 132 N-1352 KOLSÅS NORWAY	
<input type="checkbox"/> This person is also inventor. Telephone No. Facsimile No. Teleprinter No.	
State (that is, country) of nationality: NORWAY	State (that is, country) of residence: NORWAY
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  MOEN, Øyvind Bellevy 12 N-4790 LILLESAND NORWAY	
This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)	
State (that is, country) of nationality: NORWAY	State (that is, country) of residence: NORWAY
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
<input checked="" type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: <input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) HÅMSØ PATENTBYRÅ ANS Eivind Håmsø, Odd Skjæveland, Gunnar Håmsø, Arnold Østvold, Borge Håmsø, Jostein Soppeland Box 171 N-4302 SANDNES NORWAY	
Telephone No. + 47 51 66 20 20 Facsimile No. + 47 51 66 18 96 Teleprinter No.	
<input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.	

CONFIRMATION COPY

Continuation of Box No. III

FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

*If none of the following sub-boxes is used, this sheet should not be included in the request.*

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

BERG, Finn  
Sandsmyra 29  
N-4790 LILLESAND  
NORWAY

This person is:

- ☐ applicant only  
☒ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

NORWAY

State (that is, country) of residence:

NORWAY

This person is applicant for the purposes of:

☐ all designated States☐ all designated States except the United States of America☒ the United States of America only☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

ANDERSEN, Tor  
Labråtan 10  
N-1349 RYKKIN  
NORWAY

This person is:

- ☐ applicant only  
☒ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

NORWAY

State (that is, country) of residence:

NORWAY

This person is applicant for the purposes of:

☐ all designated States☐ all designated States except the United States of America☒ the United States of America only☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only  
☐ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

☐ all designated States☐ all designated States except the United States of America☐ the United States of America only☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only  
☐ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

☐ all designated States☐ all designated States except the United States of America☐ the United States of America only☐ the States indicated in the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on another continuation sheet.

## Box No.V DESIGNATION OF STATES

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):

## Regional Patent

- ☒ AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☒ EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ EP European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☒ OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

## National Patent (if other kind of protection or treatment desired, specify on dotted line):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> AE United Arab Emirates                  | <input checked="" type="checkbox"/> LR Liberia                                   |
| <input checked="" type="checkbox"/> AL Albania                               | <input checked="" type="checkbox"/> LS Lesotho                                   |
| <input checked="" type="checkbox"/> AM Armenia                               | <input checked="" type="checkbox"/> LT Lithuania                                 |
| <input checked="" type="checkbox"/> AT Austria and Utility Model             | <input checked="" type="checkbox"/> LU Luxembourg                                |
| <input checked="" type="checkbox"/> AU Australia                             | <input checked="" type="checkbox"/> LV Latvia                                    |
| <input checked="" type="checkbox"/> AZ Azerbaijan                            | <input checked="" type="checkbox"/> MA Morocco                                   |
| <input checked="" type="checkbox"/> BA Bosnia and Herzegovina                | <input checked="" type="checkbox"/> MD Republic of Moldova                       |
| <input checked="" type="checkbox"/> BB Barbados                              | <input checked="" type="checkbox"/> MG Madagascar                                |
| <input checked="" type="checkbox"/> BG Bulgaria                              | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia |
| <input checked="" type="checkbox"/> BR Brazil                                | <input checked="" type="checkbox"/> MN Mongolia                                  |
| <input checked="" type="checkbox"/> BY Belarus                               | <input checked="" type="checkbox"/> MW Malawi                                    |
| <input checked="" type="checkbox"/> CA Canada                                | <input checked="" type="checkbox"/> MX Mexico                                    |
| <input checked="" type="checkbox"/> CH and LI Switzerland and Liechtenstein  | <input checked="" type="checkbox"/> NO Norway                                    |
| <input checked="" type="checkbox"/> CN China                                 | <input checked="" type="checkbox"/> NZ New Zealand                               |
| <input checked="" type="checkbox"/> CR Costa Rica                            | <input checked="" type="checkbox"/> PL Poland                                    |
| <input checked="" type="checkbox"/> CU Cuba                                  | <input checked="" type="checkbox"/> PT Portugal                                  |
| <input checked="" type="checkbox"/> CZ Czech Republic and Utility Model      | <input checked="" type="checkbox"/> RO Romania                                   |
| <input checked="" type="checkbox"/> DE Germany and Utility Model             | <input checked="" type="checkbox"/> RU Russian Federation                        |
| <input checked="" type="checkbox"/> DK Denmark and Utility Model             | <input checked="" type="checkbox"/> SD Sudan                                     |
| <input checked="" type="checkbox"/> DM Dominica                              | <input checked="" type="checkbox"/> SE Sweden                                    |
| <input checked="" type="checkbox"/> EE Estonia and Utility Model             | <input checked="" type="checkbox"/> SG Singapore                                 |
| <input checked="" type="checkbox"/> ES Spain                                 | <input checked="" type="checkbox"/> SI Slovenia                                  |
| <input checked="" type="checkbox"/> FI Finland and Utility Model             | <input checked="" type="checkbox"/> SK Slovakia and Utility Model                |
| <input checked="" type="checkbox"/> GB United Kingdom                        | <input checked="" type="checkbox"/> SL Sierra Leone                              |
| <input checked="" type="checkbox"/> GD Grenada                               | <input checked="" type="checkbox"/> TJ Tajikistan                                |
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| <input checked="" type="checkbox"/> HU Hungary                               | <input checked="" type="checkbox"/> UA Ukraine                                   |
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| <input checked="" type="checkbox"/> IL Israel                                | <input checked="" type="checkbox"/> US United States of America                  |
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| <input checked="" type="checkbox"/> IS Iceland                               | <input checked="" type="checkbox"/> VN Viet Nam                                  |
| <input checked="" type="checkbox"/> JP Japan                                 | <input checked="" type="checkbox"/> YU Yugoslavia                                |
| <input checked="" type="checkbox"/> KE Kenya                                 | <input checked="" type="checkbox"/> ZA South Africa                              |
| <input checked="" type="checkbox"/> KG Kyrgyzstan                            | <input checked="" type="checkbox"/> ZW Zimbabwe                                  |
| <input checked="" type="checkbox"/> KP Democratic People's Republic of Korea |  |
| <input checked="" type="checkbox"/> KR Republic of Korea                     |  |
| <input checked="" type="checkbox"/> KZ Kazakhstan                            |  |
| <input checked="" type="checkbox"/> LC Saint Lucia                           |  |
| <input checked="" type="checkbox"/> LK Sri Lanka                             |  |

Check-boxes reserved for designating States which have become party to the PCT after issuance of this sheet:

- ☒ DZ - Algeria
- ☒ AG - Antigua and Barbuda
- ☒ MZ - Mozambique

**Precautionary Designation Statement:** In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Box No. VI PRIORITY CLAIM					<input type="checkbox"/> Further priority claim is indicated in the Supplemental Box.
Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:			
		national application: country	regional application: regional Office	international application: receiving Office	
item (1) (03.06.99) 3 June 1999	19992686	Norway			
item (2)					
item (3)					

☒ The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s): (1)

\* Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box.

## Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA/SE

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year)

Number

Country (or regional Office)

## Box No. VIII CHECK LIST; LANGUAGE OF FILING

This international application contains the following number of sheets:

request : 4

description (excluding sequence listing part) : 6

claims : 3

abstract : 1

drawings : 3

sequence listing part of description : \_\_\_\_\_

Total number of sheets : 17

This international application is accompanied by the item(s) marked below:

1. ☒ fee calculation sheet2. ☒ separate signed power of attorney3. ☐ copy of general power of attorney; reference number, if any:4. ☐ statement explaining lack of signature5. ☐ priority document(s) identified in Box No. VI as item(s):6. ☐ translation of international application into (language):7. ☐ separate indications concerning deposited microorganism or other biological material8. ☐ nucleotide and/or amino acid sequence listing in computer readable form9. ☒ other (specify): Copy of Off. Action of 13.10.99

Figure of the drawings which should accompany the abstract: 1

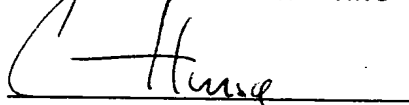
Language of filing of the international application:

Norwegian

## Box No. IX SIGNATURE OF APPLICANT OR AGENT

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

HÅMSØ PATENTBYRÅ ANS



Gunnar Håmsø

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18 MAI 2000 (18.05.2000)

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6. ☐ Transmittal of search copy delayed until search fee is paid.

2. Drawings:

☒ received:☐ not received:

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13 JUNE 2000

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2/3

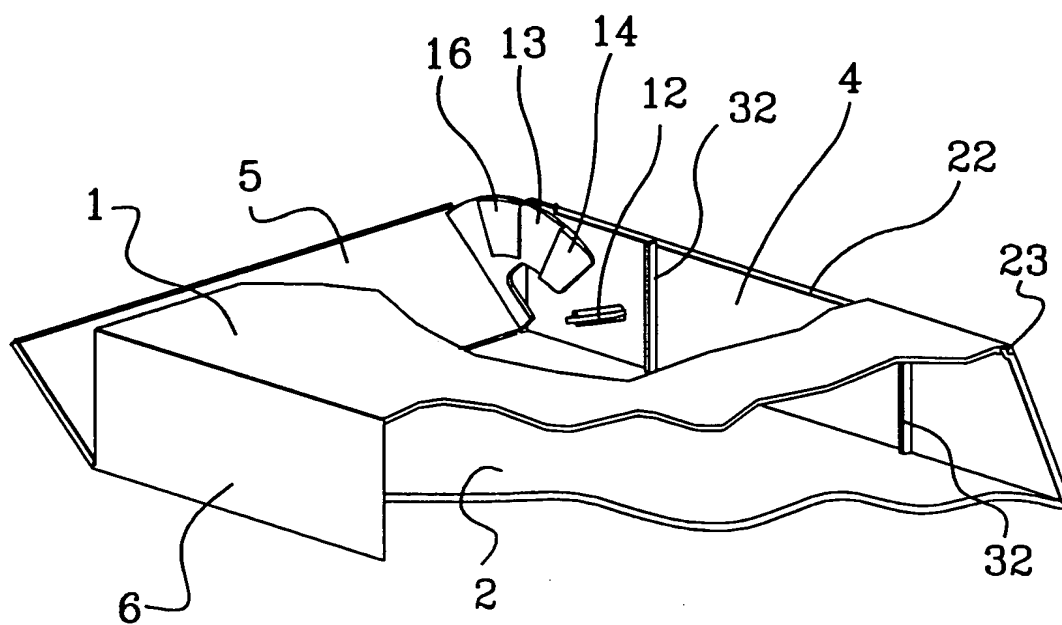


FIG. 2

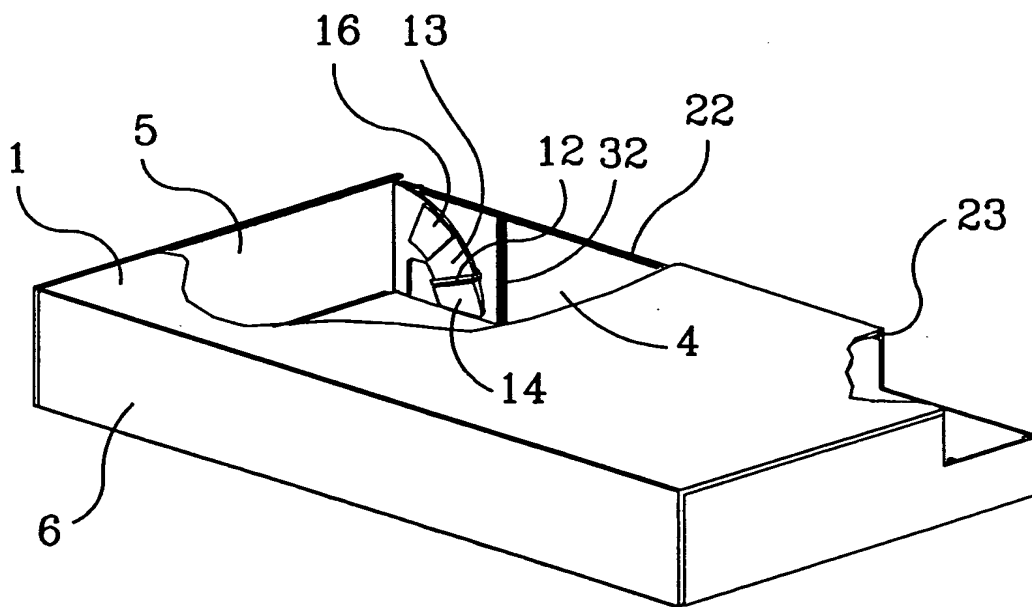


FIG. 3

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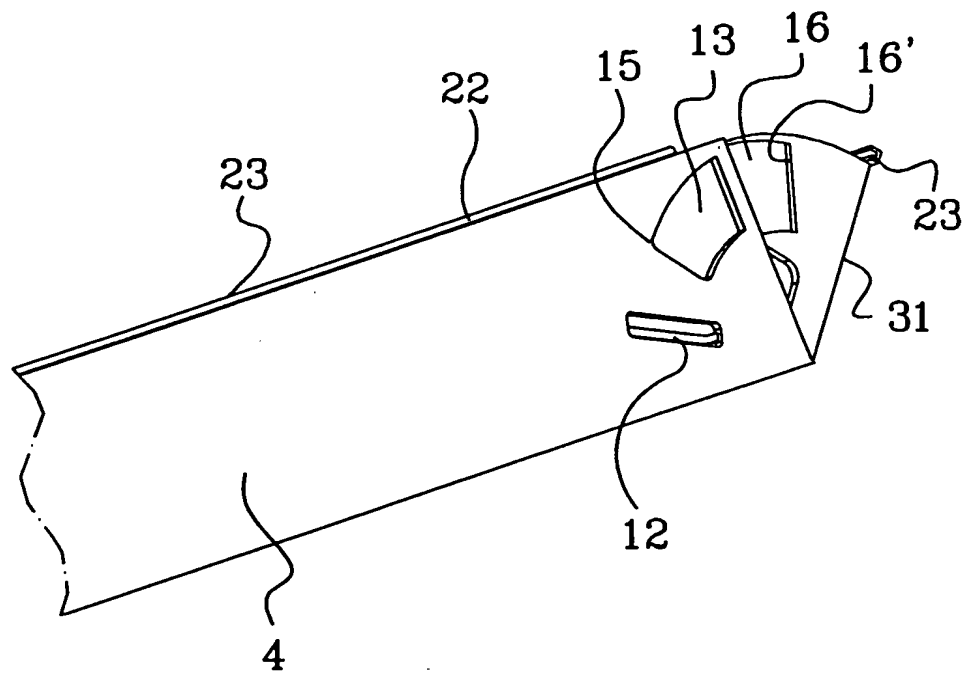
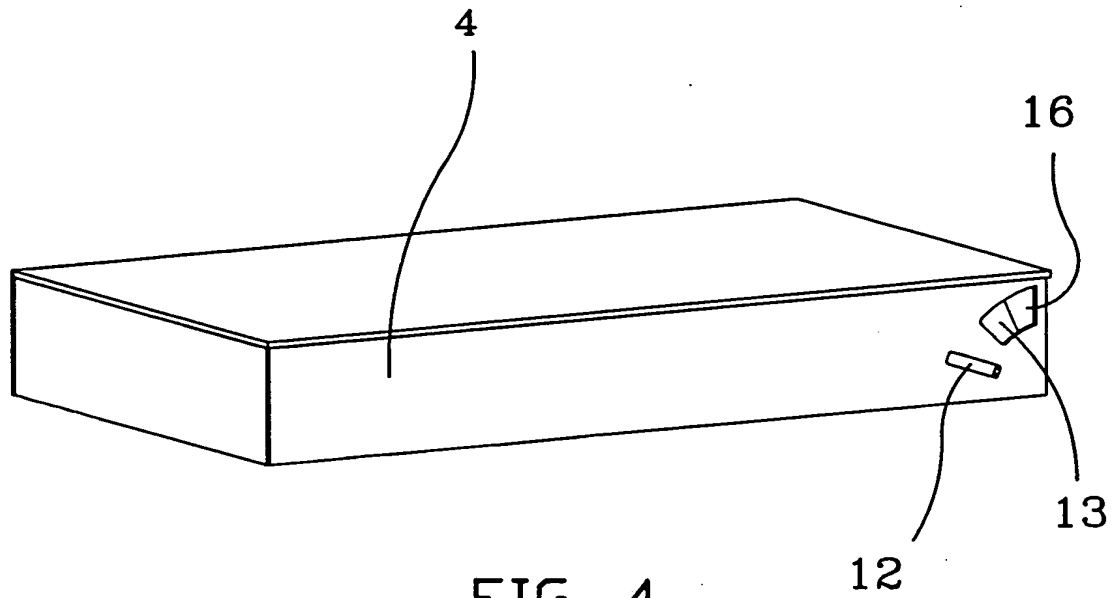


FIG. 5

ESKE FOR VIDEOKASSETT, CD-PLATE ELLER LIGNENDE, SAMT EMNE FOR  
ESKEN

Foreliggende oppfinnelse vedrører en eske for videokassett,  
CD-plate eller lignende med to sidevegger og mellomliggende  
5 endevegger, samt et emne for esken.

De tidligere kjente esker for videokassetter, CD-plater eller  
lignende er normalt delt i to deler som hengsellignende er  
forbundet med hverandre, slik at eskedelene kan svinges fra  
eller mot hverandre når f.eks. videokassetten skal tas ut av  
10 eller legges inn i esken. Slike esker blir merket med infor-  
masjon om respektive videokassett, CD-plate eller lignende,  
og kjøpere kan ordne dem i f.eks. en reol etter et foretruk-  
ket system.

For kjøpere er det viktig at esken skaffer til veie en embal-  
15 lasje som beskytter og samtidig gir informasjon om produktet  
i esken. For forhandlere av f.eks. uavspilte videokassetter  
er det viktig at esken også er utstyrt med forsegling som vi-  
ser om kjøpere har åpnet esken etter anskaffelse. Forseglin-  
gen beskytter i tillegg mot støv, etc. En ulempe med kjente  
20 esker er at de leveres ferdig i den endelige form, slik at  
plassbehovet uønsket øker under transport og lagring. Eskene

er dessuten uforholdmessig arbeidskrevende bl.a. som følge av  
nevnte hengsling, og dermed kostbare under produksjon. Videre  
er forseglingen som normalt er i form av en omhylling av  
krympeplast, og som f.eks. påføres i en varmetunnel eller ved  
5 cellufanering, en omstendelig prosess. Dette øker produk-  
sjonskostnadene ytterligere.

Det er med den foreliggende oppfinnelse skaffe til veie en  
eske for videokassett, CD-plate eller lignende, samt et emne  
for esken, hvor ovennevnte mangler og ulemper i det alt ve-  
10 sentlig er avhjulpet. Dette er realisert ved hjelp av trekke-  
ne som fremgår av karakteristikken til de to etterfølgende  
selvstendige krav. I nevnte selvstendige patentkrav vedrøren-  
de esken angis det at denne er tildannet av et arklignende  
emne som omfatter sideveggene, endeveggene og tilordnede  
15 brettelinjer for disse, idet endeveggene er slik anbrakt at  
èn endevegg forløper mellom to av brettelinjene utformet sam-  
menfallende med de mot hverandre vendende lengdekanter til  
sideveggene, èn endekant forløper ved brettelinjen utformet  
sammenfallende med en lengdekant til èn av sideveggene mot-  
20 stående forannevnte lengdekanter, og de øvrige endevegger  
forløper ved respektive brettelinje utformet sammenfallende  
med tverrkanter til sistnevnte sidevegg, samt en forsegl-  
lingsinnretning slik innrettet at det vises om esken har vært  
åpnet, idet forseglingsinnretningen er anbrakt ved to tilstø-  
25 tende endevegger. Videre angis det i nevnte selvstendige pa-  
tentkrav vedrørende emnet at dette omfatter sideveggene, en-  
deveggene og tilordnede brettelinjer for disse, idet endeveg-  
gene er slik anbrakt at èn endevegg forløper mellom to av  
brettelinjene utformet sammenfallende med de mot hverandre  
30 vendende lengdekanter til sideveggene, èn endekant forløper  
ved brettelinjen utformet sammenfallende med en lengdekant  
til èn av sideveggene motstående forannevnte lengdekanter, og

de øvrige endevegger forløper ved respektive brettelinje utformet sammenfallende med tverrkanter til sistnevnte sidevegg, samt en forseglingsinnretning slik innrettet at det vises om esken har vært åpnet, idet forseglingsinnretningen er  
5 anbrakt ved to tilstøtende endevegger.

Dermed er det sørget for at esken og for så vidt også emnet for esken bl.a. kan oppbevares i flat utstrekning, slik at disse er mindre plasskrevende under transport og lagring, at esken, henholdsvis emnet omfatter en forseglingsinnretning,  
10 slik at den tidligere forsegling med omhylling av esken blir unødvendig, og at eskene er langt enklere å fremstille, slik at samlede produksjonskostnadene blir langt mindre. Andre fordelaktige trekk ved oppfinnelsen fremgår av de foreliggende uselvstendige krav og beskrivelsen for øvrig.

15 Det vil i den etterfølgende del av beskrivelsen, med henvisning til de vedføyde tegninger, bli redegjort nærmere for en foretrukket ikke-begrensende utføring av den foreliggende oppfinnelse, hvor:

Fig. 1 viser et skjematisk riss av et flatt arklignende emne  
20 for tildanning av en eske med en forseglingsinnretning anbrakt ved to tilstøtende endevegger i emnet;

Fig. 2 viser et skjematisk perspektivriss av esken under ferdigstilling, hvor partier er utelatt for bedre å vise forseglingsinnretningen før denne er ført sammen til forseglende  
25 stilling;

Fig. 3 viser et skjematisk perspektivriss av den ferdige eske med partier utelatt for bedre å vise den sammenførte forseglingsinnretning;

Fig. 4 viser et skjematisk perspektivrikk av den ferdige eske sett inn mot en langsgående endekant ved forseglingsinnretningen; og

Fig. 5 viser et detaljutsnitt av esken sett inn mot endeveggene med forseglingsinnretningen under sammenføring av denne.

Det arkformede emne 1 som benyttes ved tildanning av esken, omfatter to sidevegger 1, 2, endevegger 3-6 som er mellomliggende til sideveggene 1, 2 i den ferdigstilte eske, og tilordnede brettelinjer 7-11 for disse. Endeveggene 3-6 er slik anbrakt i emnet at en endevegg 3 forløper mellom to av brettelinjene 7, 8 sammenfallende med de mot hverandre vendende lengdekanter til sideveggene 1, 2, en endekant 4 forløper ved brettelinjen 9 sammenfallende med en lengdekant til en av sideveggene 2 motstående de forannevnte lengdekanter, og de øvrige endevegger 5, 6 forløper ved respektive brettelinje 10, 11 sammenfallende med tverrkanter til sistnevnte sidevegg 2. Emnet omfatter i tillegg en forseglingsinnretning 12, 13 som er slik innrettet at det vises om esken har vært åpnet etter ferdigstilling, og som er anbrakt ved to tilstøtende endevegger 4, 5.

Forseglingsinnretningen omfatter en bøyelignede del 12 og en tilordnet låsedel 13 respektive utformet i hver sin endevegg 4, 5. Bøyledelen 12 er anbrakt i et parti nær en tverrkant 24 til endeveggen 4 som vender mot endeveggen 5, og låsedelen 13 forløper i emnets flate tilstand, slik det er vist i fig. 1, avrundet mot endeveggen 4 i forlengelsen av endeveggen 5. Låsedelen 13 kan bøyes opp mot endeveggen 5 ved en brettelinje 31 utformet i denne. Ved en fri ende som vender mot bøyledelen 12, har låsedelen 13 et kileformet parti 14 tilpasset for, i den ferdigstilte uåpnede eske, å ligge låsende

an mot bøyledelen 12. Kilepartiet 14 blir ført inn i bøyledelen 12 under brekking av esken, hvoretter en bakre kant på kilepartiet 14 vil hindre at låsedelen 13 kan trekkes ut av bøyledelen 12. Dermed kan esken bare åpnes ved bryting av bøyledelen 12, slik at det som nevnt vises om kjøper har åpnet esken etter anskaffelse. Dette gjøres på den måte at f.eks. en mynt presses inn i en åpning 15 mot et forsterkningsparti 16 på låsedelen 13. Alternativt kan man med for eksempel en mynt påvirke en kantflate 16' og derved presse endeveggen 5 mot åpen stilling ved at bøyledelen 12 brytes. Åpningen 15 er utformet i endeveggen 4 mellom bøyledelen 12 og en tverrkant 24 til endeveggen 4 ved endeveggen 5, og forsterkningspartiet 16 er utformet mellom kiledelen 14 og en nærliggende brettekant 31 til endeveggen 5.

For å muliggjøre at esken skal holdes sammen etter brekking langs brettelinjene 7-11, er emnet ved respektive av de frie lengdekanter 34, 18 til endeveggene 4, 6, samt de frie tverrkanter 20, 21 og den frie lengdekant 19 til sideveggen 1, henholdsvis respektive av de frie tverrkanter 25-30 til endeveggene 3-6 utformet med f.eks. sneppertlignende lukkeorgan 22, 23. Respektive lukkeorgan 22, 23 blir ført inn i hverandre etter brekking for sammenholding av esken. Etter bryting av bøyledelen 12 fås tilgang til innholdet i esken ved gjenntagende oppsvinging og nedsvingning av f.eks. sideveggen 1 eller endeveggen 5 i esken, slik at den åpnes eller lukkes. Ellers er i det minste endeveggene 4, 6 forsterket med et antall tverrgående ribber 32, 33 eller lignende.

Det er i det ovenstående angitt at bøyledelen 12 brytes ved innføring av f.eks. en mynt gjennom åpningen 15, og at man deretter påvirker kantflaten 16'. Det er selvsagt mulig at bøyledelen 12 isteden kan brytes ved innpressing av mynten



direkte inn i en åpning som eventuelt er utformet i tilknytning til bøyledelen 12. Alternativt kan låsedelen 13 være utformet med en bruddlinje ved åpningen 15, slik at låsedelen 13 brytes og bøyledelen 12 forblir ubrutt. Bøyledelen 12 kan  
5 f.eks. være festet direkte til den innvendige side til endeveggen 4, eller den kan gjenstå som en bøyledel i en åpning utformet i endeveggen 4.

Det vil forstås at forseglingsinnretningen kan være utformet på annen måte enn den som er vist i figurene. Ett av flere  
10 mulige alternativ er å lime et parti av den såkalte låsedelen til endeveggen 4. Forseglingen kan da eventuelt brytes langs en bruddlinje ved brettelinjen 31 eller i selve låsedelen. Videre kan lukkeorganet 22, 23 ha en annen utforming enn den viste. Emnet er fortrinnsvis i plast, men ethvert annet egnet  
15 materiale kan benyttes. Emnet vil være godt egnet til bruk ved automatisk pakking av videokassetter etc.

## P a t e n t k r a v

1. Eske for videokassett, CD-plate eller lignende, med to sidevegger (1, 2) og mellomliggende endevegger (3-6), k a r a k t e r i s e r t v e d at esken er tildannet av et arklignende emne som omfatter sideveggene (1, 2), endeveggene (3-6) og tilordnede brettelinjer (7-11) for disse, idet endeveggene (3-6) er slik anbrakt at èn endevegg (3) forløper mellom to av brettelinjene (7, 8) utformet sammenfallende med de mot hverandre vendende lengdekanter til sideveggene (1, 2), èn endevegg (4) forløper ved brettelinjen (9) utformet sammenfallende med en lengdekant til èn av sideveggene (2) motstående forannevnte lengdekanter, og de øvrige endevegger (5, 6) forløper ved respektive brettelinje (10, 11) utformet sammenfallende med tverrkanter til sistnevnte sidevegg (2), samt en forseglingsinnretning (12, 13) slik innrettet at det vises om esken har vært åpnet, idet forseglingsinnretningen (12, 13) er anbrakt ved to tilstøtende endevegger (4, 5).

2. Eske ifølge krav 1, k a r a k t e r i s e r t v e d at forseglingsinnretningen omfatter en bøylelignende del (12) og en tilordnet låsedel (13) utformet i respektive endevegger (4, 5).

3. Eske ifølge krav 2, k a r a k t e r i s e r t v e d at den bøylelignende del (12) er anbrakt i et område nær en tverrkant (24) til endeveggen (4) vendende mot endeveggen (5) og låsedelen (13) i forlengelsen av endeveggen (5) vendende mot endeveggen (4).

4. Eske ifølge et hvilket som helst av de foranstående krav 2 og 3, k a r a k t e r i s e r t v e d at låsedelen

(13), først nevnt i krev 2, ved en ende vendende mot den bøylelignende del (12) er utformet med et kileformet parti (14) tilpasset for å ligge lås-ende an mot den bøylelignende del (12), idet forseglingsinnretningen åpnes ved at den bøylelignende del (12) brytes.

5. Eske ifølge et hvilket som helst av de foranstående krav, k a r a k t e r i s e r t v e d at respektive av de frie lengdekanter (17,18,34) til endeveggene (5,6,4), samt de frie tverrkanter (20, 21) og den frie lengdekant (19) til sideveggen (1), henholdsvis respektive av de frie tverrkanter (25-30) til endeveggene (3-6) er utformet med f.eks. snepertlignende lukkeorgan (22, 23).

6. Emne til eske for videokassett, CD-plate eller lignende med to sidevegger (1, 2) og mellomliggende endevegger (3-6), k a r a k t e r i s e r t v e d at emnet omfatter sideveggene (1, 2), endeveggene (3-6) og tilordnede brettelinjer (7-11) for disse, idet endeveggene (3-6) er slik anbrakt at en endevegg (3) forløper mellom to av brettelinjene (7, 8) utformet sammenfallende med de mot hverandre vendende lengdekanter til sideveggene (1, 2), en endevegg (4) forløper ved brettelinjen (9) utformet sammenfallende med en lengdekant til en av sideveggene (2) motstående forannevnte lengdekanter, og de øvrige endevegger (5, 6) forløper ved respektive brettelinje (10, 11) utformet sammenfallende med tverrkanter til sistnevnte sidevegg (2), samt en forseglingsinnretning (12, 13) slik innrettet at det vises om esken har vært åpnet, idet forseglingsinnretningen (12, 13) er anbrakt ved to tilstøtende endevegger (4, 5).

7. Emne ifølge krav 6, k a r a k t e r i s e r t v e d at forseglingsinnretningen omfatter en bøylelignende del (12)

og en tilordnet låsedel (13) utformet i respektive endevegger (4, 5).

8. Emne ifølge krav 7, k a r a k t e r i s e r t v e d at den bøylelignende del (12) er anbrakt i et område nær en tverrkant (24) til endeveggen (4) vendende mot endeveggen (5) og låsedelen (13) i forlengelsen av endeveggen (5) vendende mot endeveggen (4).

9. Emne ifølge et hvilket som helst av kravene 7-8, k a r a k t e r i s e r t v e d at låsedelen (13) ved en ende vendende mot den bøylelignende del (12) er utformet med et kileformet parti (14) tilpasset for å ligge låsende an mot den bøylelignende del (12), idet forseglingsinnretningen åpnes ved at den bøylelignende del (12) brytes.

10. Emne ifølge et hvilket som helst av kravene 6-9, k a r a k t e r i s e r t v e d at respektive av de frie lengdekanter (17,18,34) til endeveggene (5,6,4), samt de frie tverrkanter (20, 21) og den frie lengdekant (19) til sideveggen (1), henholdsvis respektive av de frie tverrkanter (25-30) til endeveggene (3-6) er utformet med f.eks. snepertliggende lukkeorgan (22, 23).

# S a m m e n d r a g

Oppfinnelsen gjelder en eske for en videokassett, CD-plate eller lignende med to sidevegger (1, 2) og mellomliggende endevegger (3-6), samt et emne for esken. Esken er tildannet av  
 5 et arklignende emne som omfatter sideveggene (1, 2), endeveggene (3-6) og tilordnede brettelinjer (7-11) for disse. Endeveggene (3-6) er slik anbrakt at en endevegg (3) forløper mellom to av brettelinjene (7, 8) utformet sammenfallende med de mot hverandre vendte lengdekanter til sideveggene (1, 2),  
 10 en endevegg (4) forløper ved brettelinjen (9) utformet sammenfallende med en lengdekant til en av sideveggene (2) motsatt forannevnte lengdekanter, og de øvrige endevegger (5, 6) forløper ved respektive brettelinje (10, 11) utformet sammenfallende med tverrkanter til sistnevnte sidevegg (2). Esken  
 15 og emnet omfatter i tillegg en forseglingsinnretning (12, 13) slik innrettet at det vises om esken har vært åpnet.

(Fig. 1)

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



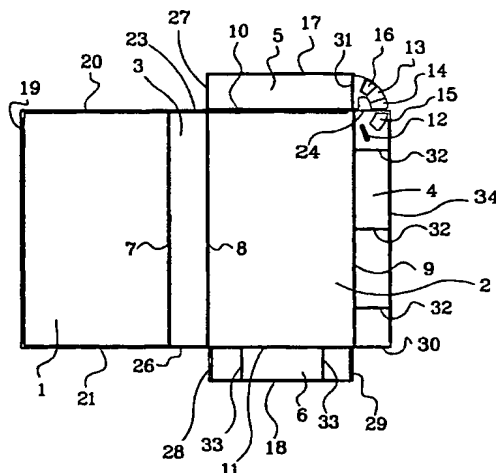
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PCT

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(54) Title: **TAMPER-RESISTANT BOX FOR VIDEOCASSETTE, COMPACT DISC (CD) OR SIMILAR, AND SUBJECT FOR THE BOX**



(57) Abstract: The invention relates to a box for a video cassette, compact disc (CD) or similar, with two side walls (1, 2) and intermediate end walls (3-6), and a blank for the box. The box is formed of a sheet-like blank comprising the side walls (1, 2), end walls (3-6) and folding lines (7-11) provided therefor. The end walls (3-6) are positioned so that one end wall (3) extends between two of the folding lines (7, 8) formed to coincide with the longitudinal edges, facing one another, of the side walls (1, 2), one end wall (4) extends at the folding line (9) formed to coincide with a longitudinal edge of one of the side walls (2) opposite the afore-mentioned longitudinal edges, and the remaining end walls (5, 6) extend at respective folding lines (10, 11) formed to coincide with transversal edges of the side wall (2) last mentioned. The box and the blank comprise, in addition, a sealing means (12, 13) arranged so that it shows whether the box has been opened.

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TAMPER-RESISTANT BOX FOR VIDEOCASSETTE, COMPACT DISC  
(CD) OR SIMILAR, AND SUBJECT FOR THE BOX

The present invention relates to a box for a video cassette,  
compact disc (CD) or similar, with two side walls and  
5 intermediate end walls, and a blank for the box.

The previously known boxes for video cassettes, CDs or  
similar normally consist of two parts connected in a hinge-  
like manner, so that the box parts can be pivoted away or  
towards one another when, for example, the video cassette is  
10 to be removed from or placed in the box. Such boxes are  
provided with information about the respective video  
cassette, CD or similar, and buyers may arrange them in a  
rack, for example, according to a preferred system.

To buyers it is important that the box provides a packaging  
15 which protects and, at the same time, provides information on  
the product inside the box. For distributors of e.g. non-  
played video cassettes it is important that the box is also  
provided with a seal, which indicates whether buyers have  
opened the boxes after buying them. The seal additionally

protects against dust etc. A drawback of known boxes is that they are supplied ready-made, in their final form, so that the space required during transport and storage is undesirably increased. Moreover, the boxes are

5 disproportionately labour-intensive, due to, among other things, said hinging, and they are thereby expensive to produce. Further, the sealing, which is normally in the form of a wrapping of shrink plastic, and which is applied for example in a heat tunnel or by cellophanizing, is a

10 complicated process. This increases the production costs further.

Through the present invention, there is provided a box for a video cassette, compact disc (CD) or similar, and a blank for the box, whereby the above-mentioned defects and

15 disadvantages are essentially remedied. This has been realised by means of the features appearing from the characterizing part of the following two independent Claims. In said independent Claims concerning the box, is specified that the box is formed of a sheet-like blank, which comprises

20 the side walls, end walls and folding lines provided therefor, the end walls being positioned so, that one end wall extends between two of the folding lines formed to coincide with the longitudinal edges, facing one another, of the side walls, one terminal edge extends at the folding line

25 formed to coincide with a longitudinal edge of one of the side walls opposite the aforementioned longitudinal edges, and the remaining end walls extend at the respective folding lines formed to coincide with transversal edges of the side wall last mentioned, and a sealing means arranged so that it

30 shows whether the box has been opened, the sealing means being provided at two adjacent end walls. Further, it is stated in said independent Claim concerning the blank, that



this contains the side walls, end walls and folding lines provided therefor, the end walls being positioned so that one end wall extends between two of the folding lines formed to coincide with the longitudinal edges, facing one another, of the side walls, one terminal edge extends at the folding line formed to coincide with a longitudinal edge of one of the side walls opposite the aforementioned longitudinal edges, and the remaining end walls extend at the respective folding line formed to coincide with transversal edges of the side wall last mentioned, and a sealing means arranged so that it shows whether the box has been opened, the sealing means being positioned at two adjacent end walls.

Thereby provision is made for the box, and for that matter also the blank for the box, among other things to be stored in a flat extent, so that these will be less space-demanding during transport and storage, and that the box or the blank comprises a sealing means, so that the previous sealing with wrapping of the box becomes unnecessary, and that the boxes are far easier to produce, so that the total production cost will be much smaller. Other favourable features of the invention appear from the present dependent Claims, and otherwise from the description.

In the following part of the description and with reference to the appended drawings, a preferred non-limiting embodiment of the present invention will be explained in further detail,

Fig. 1 showing a schematic view of a flat sheet-like blank for the formation of a box with a sealing means provided at two adjacent end walls of the blank;

Fig. 2 showing a schematic perspective view of the box during completion, wherein portions have been left out in order better to show the sealing means before it has been put together into a sealing position;

- 5 Fig. 3 showing a schematic perspective view of the completed box with portions left out in order better to show the connected sealing means;

Fig. 4 showing a schematic perspective view of the completed box viewed towards a longitudinal terminal edge at the  
10 sealing means; and

Fig. 5 showing a detailed section of the box viewed towards the end walls with the sealing means, as this is being brought together.

The sheet-formed blank 1, which is used in the forming of the  
15 box, comprises two side walls 1, 2, end walls 3-6 positioned between the side walls 1, 2 in the complete box, and associated folding lines 7-11 provided therefor. The end walls 3-6 are positioned so in the blank, that one end wall 3 extends between two of the folding lines 7, 8 coinciding with  
20 the opposite longitudinal edges of the side walls 1, 2, one terminal edge 4 extends at the folding line 9 coinciding with a longitudinal edge of one of the side walls 2 opposite the longitudinal edges mentioned above, and the remaining end walls 5, 6 extend at respective folding lines 10, 11  
25 coinciding with transversal edges of the side wall 2 last mentioned. Additionally, the blank comprises a sealing means 12, 13 arranged so that it shows whether the box has been opened after completion, and which is positioned at two adjacent end walls 4, 5.

The sealing means comprises a bow-like element 12 and a locking element 13 arranged thereto, each formed in a respective end wall 4, 5. The bow element 12 is provided in a portion near a transversal edge 24 of the end wall 4, facing the end wall 5, and in the flat condition of the blank, the locking element 13 extends as shown in Fig. 1, rounded towards the end wall 4 in the extension of the end wall 5. The locking element 13 can be bent upwards towards the end wall 5 at a folding line 31 formed therein. At a free end facing the bow element 12, the locking element 13 has a wedge-shaped portion 14 adapted to bear in a locking manner against the bow element 12 in the completed, unopened box. The wedge portion 14 is inserted into the bow element 12 when the box is being folded, after which a rear edge of the wedge portion 14 will prevent extraction of the locking element 13 from the bow element 12. Thereby the box can only be opened in that the bow element 12 is broken, so that, as mentioned, it shows if the buyer has opened the box after having bought it. This is done in the way that a coin, for example, is forced into an opening 15 against a reinforcing portion 16 of the locking element 13. Alternatively, an edge surface 16' can be influenced with a coin, and the end wall 5 thereby be forced towards an open position by breaking the bow element 12. The opening 15 is formed in the end wall 4, between the bow element 12 and a transversal edge 24 of the end wall 4 by the end wall 5, and the reinforcing portion 16 is formed between the wedge portion 14 and an adjacent folding edge 31 of the end wall 5.

To make it possible for the box to be held together after having been folded along the folding lines 7-11, the blank is formed, at the respective ones of the free longitudinal edges 34, 18 of the end walls 4, 6, and the free transversal edges

20, 21 and the free longitudinal edge 19 of the side wall 1, and at the respective ones of the free transversal edges 25-30 of the end walls 3-6, with closing means 22, 23, for example resembling a snap-lock. The respective closing means 5 22, 23 are inserted one into the other after the folding, to hold the box together. After breaking the bow element 12, access is gained to the content of the box by repeated upward and downward pivoting of, for example, the side wall 1 or the end wall 5 of the box, so that the box is opened or closed. 10 Otherwise, at least the end walls 4, 6 are reinforced by a number of transversal ribs 32, 33 or similar.

In the above is stated that the bow element 12 is broken through the insertion of for example a coin through the opening 15, and by subsequently influencing the edge surface 15 16'. Of course, it is possible for the bow element 12 to be broken by, the coin instead being forced directly into an opening possibly formed in association with the bow element 12. Alternatively the locking element 13 may be formed with a rupture line at the opening 15, so that the locking element 20 13 breaks and the bow element 12 remains unbroken. The bow element 12 may, for example, be secured directly to the internal face of the end wall 4, or it may remain as a bow element in an opening formed in the end wall 4.

It will be appreciated that the sealing means may be formed 25 in a different manner from that shown in the figures. One of several possible alternatives is to glue a portion of the so-called locking element to the end wall 4. The sealing may then possibly be broken along a rupture line at the folding line 31 or in the locking element itself. Further, the 30 closing means 22, 23 may have a configuration different from that shown. The blank is preferably in plastic, but any other

suitable material may be used. The blank will be well suited for use in automated packaging of video cassettes etc.

## C l a i m s

1. A box for a video cassette, compact disc (CD) or similar, with two side walls (1, 2) and intermediate end walls (3-6), c h a r a c t e r i z e d i n that the  
5 box is formed of a sheet-like blank comprising side walls (1, 2), end walls (3-6) and folding lines (7-11) provided therefor, the end walls (3-6) being positioned so that one end wall (3) extends between two of the folding lines (7, 8) formed to coincide with the  
10 longitudinal edges, facing one another, of the side walls (1, 2), one end wall (4) extends at the folding line (9) formed to coincide with a longitudinal edge of one of the side walls (2) opposite the aforementioned longitudinal edges, and the remaining end walls (5, 6)  
15 exted at respective folding lines (10, 11) formed to coincide with transversal edges of the side wall (2) last mentioned, and a sealing means (12, 13) arranged so that it shows whether the box has been opened, the sealing means (12, 13) being provided at two adjacent  
20 end walls (4, 5).
2. A box according to claim 1, c h a r a c t e r i z e d i n that the sealing means comprises a bow-like element (12) and a locking element (13) arranged thereto, formed in respective end walls (4, 5).
- 25 3. A box according to claim 2, c h a r a c t e r i z e d i n that the bow-like element (12) is positioned in a region near a transversal edge (24) of the end wall (4), facing the end wall (5), and the locking element (13) in

the extension of the end wall (5) facing the end wall (4).

4. A box according to any one of the preceding claims 2 and 3, characterized in that at one end facing the bow-like element (12), the locking element (13), mentioned first in Claim 2, is formed with a wedge-like portion (14) adapted to rest in a locking manner against the bow-like element (12), the sealing means being opened in that the bow-like element (12) is being broken.
5. A box according to any one of the preceding claims, characterized in that the respective ones of the free longitudinal edges (17, 18, 34) of the end walls (5, 6, 4), and the free transversal edges (20, 21) and the free longitudinal edge (19) of the side wall (1), and the respective ones of the free transversal edges (25-30) of the end walls (3-6) are formed with closing means (22, 23) resembling a snap-lock, for example.
6. A blank for a box for a video cassette, compact disc (CD) or similar, with two side walls (1, 2) and intermediate end walls (3-6), characterized in that the blank comprises the side walls (1, 2), end walls (3-6) and folding lines (7-11) provided therefor, the end walls (3-6) being positioned so that one end wall (3) extends between two of the folding lines (7, 8) formed to coincide with the longitudinal edges, facing one another, of the side walls (1, 2), one end wall (4) extends at the folding line (9) formed to coincide with a longitudinal edge of one of the side walls (2)

opposite the afore-mentioned longitudinal edges, and the remaining end walls (5, 6) extend at respective folding lines (10, 11) formed to coincide with transversal edges of the side wall (2) last mentioned, and a sealing means  
5 (12, 13) arranged so that it shows whether the box has been opened, the sealing means (12, 13) being provided at two adjacent end walls (4, 5).

7. A blank according to claim 6, c h a r a c t e r i z e d  
i n that the sealing means comprises a bow-like element  
10 (12) and a locking element (13) arranged thereto, formed in respective end walls (4, 5).

8. A blank according to claim 7, c h a r a c t e r i z e d  
i n that the bow-like element (12) is positioned in a region near a transversal edge (24) of the end wall (4),  
15 facing the end wall (5), and the locking element (13) in the extension of the end wall (5) facing the end wall (4).

9. A blank according to any one of claims 7-8, c h a -  
r a c t e r i z e d i n that at an end facing the bow-  
20 like element (12), the locking element (13) is formed with a wedge-shaped portion (14) adapted to bear in a locking manner against the bow-like element (12), the sealing means being opened by breaking the bow-like element (12).

25 10. A blank according to any one of claims 6-9, c h a -  
r a c t e r i z e d i n that the respective ones of the free longitudinal edges (17, 18, 34) of the end walls (5, 6, 4) and the free transversal edges (20, 21) and the free longitudinal edge (19) of the side wall (1), or



the respective ones of the free transversal edges (25-30) of the end walls (3-6) are formed with closing means (22, 23) resembling a snap-lock, for example.

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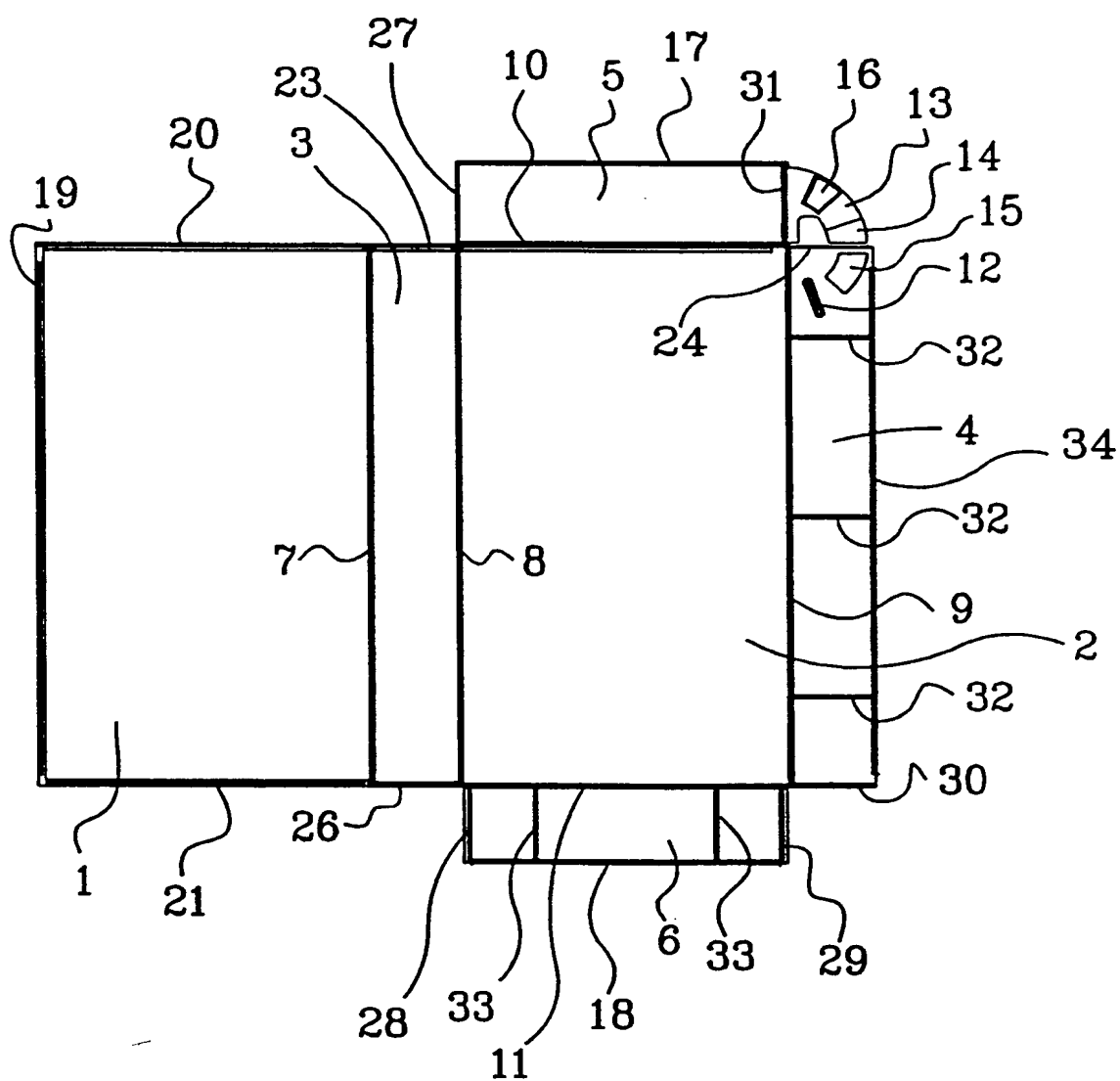


FIG. 1

2/3

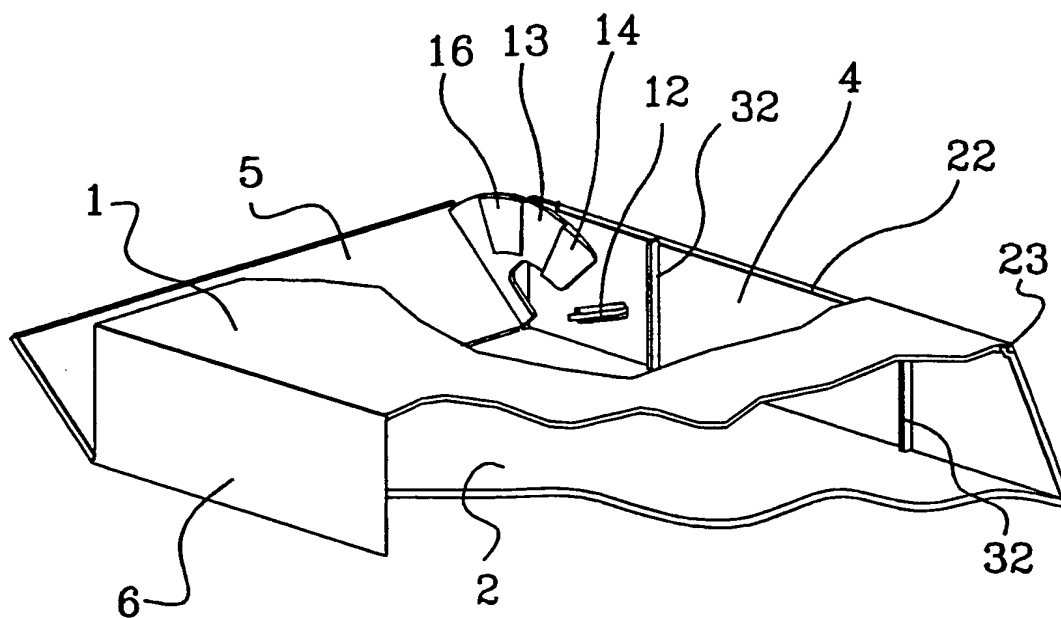


FIG. 2

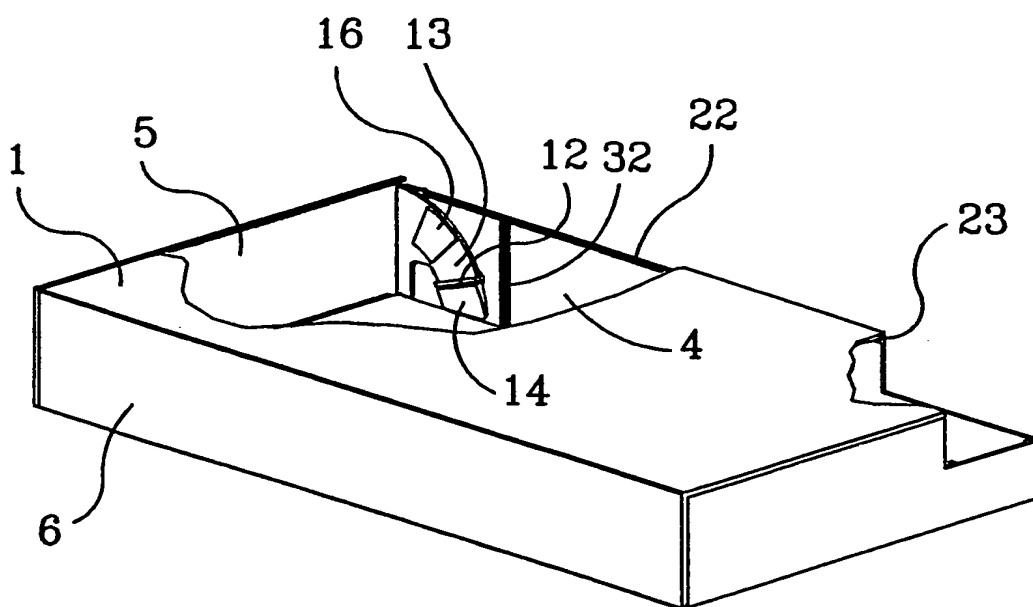


FIG. 3

3/3

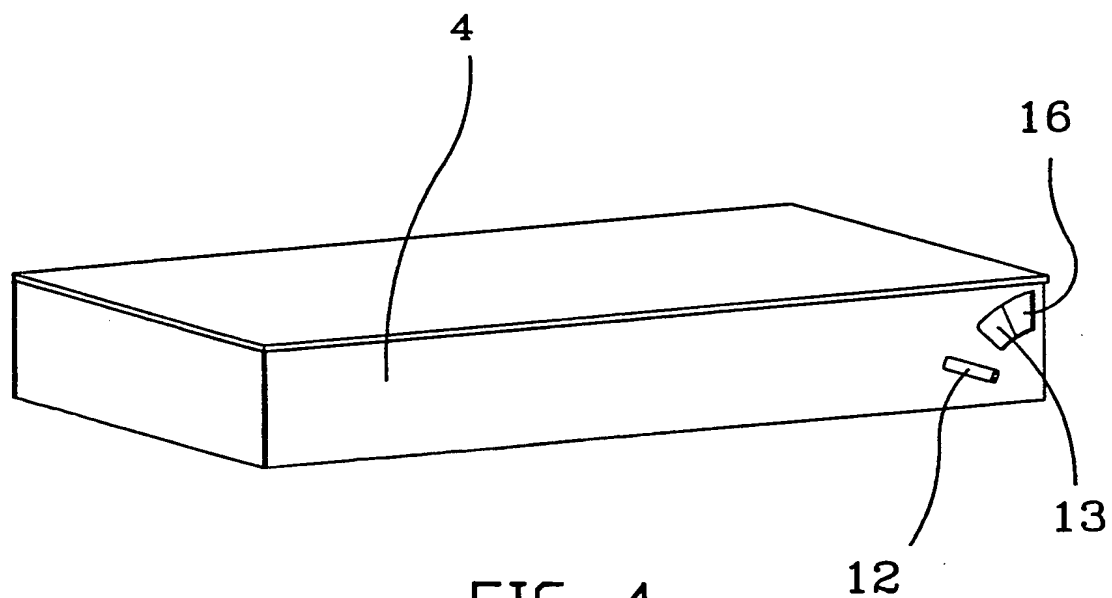


FIG. 4

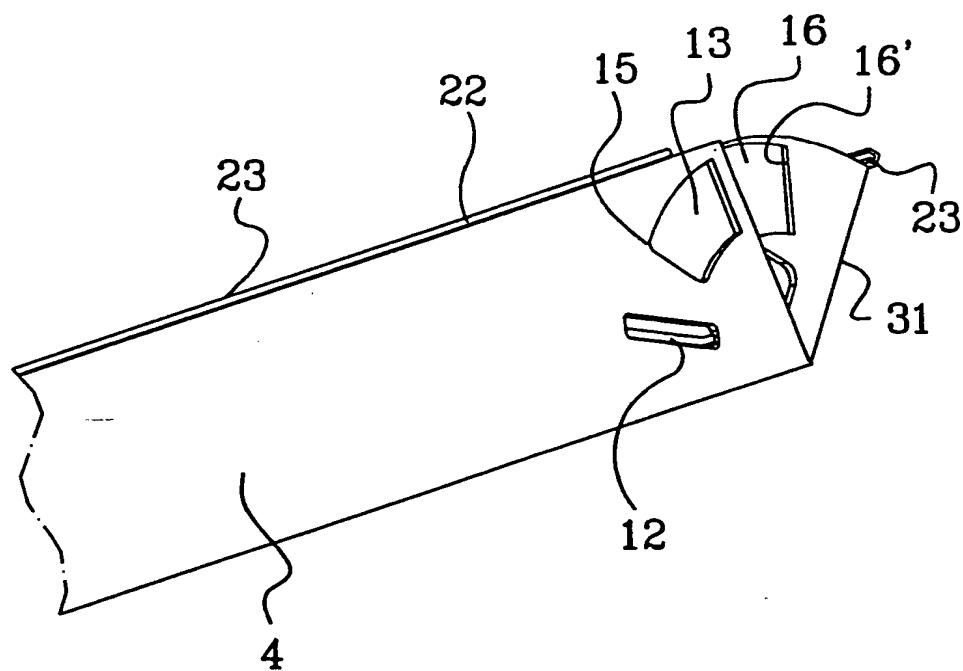


FIG. 5

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 00/00160

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B65D 5/43, B65D 85/57, G11B 23/03

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B65D, G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4434896 A (MICKEY R. BELOATE ET AL), 6 March 1984 (06.03.84), column 2, line 5 - line 59  -----	1-10



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

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"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

15 Sept. 2000

Date of mailing of the international search report

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

28/06/00

International application No.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4434896 A	06/03/84	NONE	